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Identification of individuals using fingerprints by linguistic descriptions fuzzy comparison

Martinez, A.L.P.
Dept. of Comput., Gen. Directorate of Police;

Abstract:
One of the most reliable known methods of personal identification (besides DNA recognition) is the use of fingerprints of an individual. In the present paper it is sought to introduce a new method of personal identification through fingerprints by comparing two fingerprints (one known and the other unknown) by means of linguistic elements fuzzy comparison. For each fingerprint a linguistic expression will be generated from a type of grammar that will also be defined. The fuzzy comparison of the elements of these expressions will form the hit/no-hit between both fingerprints

Index Terms:
fingerprint identification   fuzzy logic grammars   fingerprints   grammar linguistic descriptions fuzzy comparison   personal identification

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High Voltage Engineering, 1999. Eleventh International Symposium on (Conf. Publ. No. 467) , Volume: 5 , 23-27 Aug. 1999
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12 **Fingerprint identification using Delaunay triangulation**
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Caldwell, A.E.; Hyun-Jin Choi; Kahng, A.B.; Mantik, S.; Potkonjak, M.; Gang Qu; Wong, J.L.;
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Abdur Chowdhury, Ophir Frieder, David Grossman, Mary Catherine McCabe
April 2002   ACM Transactions on Information Systems (TOIS), Volume 20 Issu
Full text available: 🅐 pdf(191.32 KB)   Additional Information: full citation, abstract, references, c

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1 Copy detection mechanisms for digital documents

Sergey Brin, James Davis, Héctor García-Molina
May 1995 ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD internatioι
         Volume 24 Issue 2

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In a digital library system, documents are available in digital form and therefore
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